

IN THE CLAIMS

1. (currently amended) A content distribution system, comprising:

a content delivery server that broadcasts a data stream for a broadcast program, control information for obtaining data for a broadcast program, and program information; and

a content receiving client that receives the data stream for a broadcast program, the control information for obtaining the broadcast program, and the program information, stores the broadcast contents, and reproduces the stored broadcast program, wherein

the content delivery server delivers content control information corresponding to the broadcast program,

the content receiving client controls a reproduction for the stored broadcast program based on the content control information and the copyright protection information in the control information for obtaining the broadcast program or in the program information or controls a recording reservation operation for the broadcast program based on the content control information and the copyright protection information in the control information for obtaining the broadcast program or in the program information,

the content control information relating to copy control of the content and being in the control information for obtaining the program or in the program information,

the control information including information indicating identification numbers of data packets corresponding to a broadcast program, and

the program information including information about a broadcast program and broadcast time,

a server type broadcast content control descriptor is defined as copyright information at the time of content reproduction,

the content control descriptor being inserted in a program map table, and the applicability of the content control descriptor depending on the location of the content control descriptor within the program map table, such that in the case in which the descriptor is arranged in a first loop of the program map table the descriptor is applied to all elementary streams in a designated program, and when the descriptor is arranged in an elementary stream loop of the program map table the descriptor is applied only to a designated elementary stream.

2. (previously presented) A content distribution system according to claim 1, wherein content control information includes at least reproduction control information, and the reproduction control information includes at least one of the number of times of reproduction of contents, restriction of display resolution of reproduced broadband program, and an expiration date of content reproduction.

3. (previously presented) A content distribution system according to claim 2, wherein the content receiving client controls a reproduction for the received broadcast program further based on the reproduction control information or controls a recording reservation operation for the broadcast program further based on the reproduction control information.

4. (previously presented) A content distribution system according to claim 2, wherein the content receiving

client controls a reproduction for the received broadcast program based on record control data for managing a copy generation of contents in the control information or controls a recording reservation operation for the broadcast program based on record control data for managing a copy generation of contents in the control information, when the reproduction control information is not in the control information or the program information.

5. (currently amended) A content distribution apparatus, comprising:

means that stores a data stream for a broadcast program;

means that generates control information for obtaining data for a broadcast program and program information; and

means that transmits broadcast contents including the data stream, the control information, and the program information, wherein

the generation means inserts content control information corresponding to the broadcast program in the control information for obtaining the program or in the program information, or the transmission means inserts content control information corresponding to the broadcast program in the control information for obtaining the program or in the program information and transmits the control information,

the content control information relating to copy control of the content and being in the control information for obtaining the program or in the program information,

the control information including information indicating identification numbers of data packets corresponding to a broadcast program, and

the program information including information about a broadcast program and broadcast time,

a server type broadcast content control descriptor is defined as copyright information at the time of content reproduction,

the content control descriptor being inserted in a program map table, and the applicability of the content control descriptor depending on the location of the content control descriptor within the program map table, such that in the case in which the descriptor is arranged in a first loop of the program map table the descriptor is applied to all elementary streams in a designated program, and when the descriptor is arranged in an elementary stream loop of the program map table the descriptor is applied only to a designated elementary stream.

6. (previously presented) A content distribution apparatus according to claim 5, wherein content control information includes at least reproduction control information, and the reproduction control information includes at least one of the number of times of reproduction of contents, restriction of display resolution of reproduced broadband program, and an expiration date of content reproduction.

7. (currently amended) A content recording and reproduction apparatus, comprising:

reception means that receives broadcast contents including a data stream for a broadcast program, control information for obtaining data for a broadcast program, program information, and content control information corresponding to the broadcast program;

storage means that stores the received broadcast contents; and

reproduction means that reproduces contents stored in the storage means, wherein

the storage means controls a recording reservation operation for the contents in accordance with the content control information or the program information, or the reproduction means controls a reproduction for the received broadcast program based on the content control information in the control information for obtaining the broadcast program or in the program information,

the content control information relating to copy control of the content and being in the control information for obtaining the program or in the program information,

the control information including information indicating identification numbers of data packets corresponding to a broadcast program, and

the program information including information about a broadcast program and broadcast time,

a server type broadcast content control descriptor is defined as copyright information at the time of content reproduction,

the content control descriptor being inserted in a program map table, and the applicability of the content control descriptor depending on the location of the content control descriptor within the program map table, such that in the case in which the descriptor is arranged in a first loop of the program map table the descriptor is applied to all elementary streams in a designated program, and when the descriptor is arranged in an elementary stream loop of the program map table the descriptor is applied only to a designated elementary stream.

8. (previously presented) A content recording and reproduction apparatus according to claim 7, wherein content control information includes at least reproduction control information, and the reproduction control information includes at least one of the number of times of reproduction of contents, restriction of display resolution of reproduced broadband program, and an expiration date of content reproduction.

9. (previously presented) A content recording and reproduction apparatus according to claim 8, wherein

in the case in which the reproduction control information concerning stored broadcast contents is included in the section of the control information for obtaining the program or the program information, the storage means controls a recording reservation operation for contents on the basis of the number of times of reproduction of contents, the restriction of display resolution at the time of reproduction of contents, and the expiration date of content reproduction described in the reproduction control information, or the reproduction means controls a reproduction operation on the basis of the number of times of reproduction of contents, the restriction of display resolution at the time of reproduction of contents, and the expiration date of content reproduction described in the reproduction control information.

10. (previously presented) A content recording and reproduction apparatus according to claim 8, wherein the storage means controls a reproduction for the received broadcast program based on record control data for managing a copy generation of contents in the control information or controls a recording reservation operation for the broadcast program based on record control data for managing a copy generation of contents in the control information, when the reproduction control information is not in the control information or the program information.

11. (currently amended) A content recording and reproduction method, comprising using a processor to perform:

a reception step of receiving broadcast contents including a data stream for a broadcast program, control information for obtaining data for a broadcast program, program information, and content control information corresponding to the broadcast program or in the program information;

a storage step of storing the received broadcast contents; and

a reproduction step of reproducing the contents stored in the storage step, wherein

in the storage step, a recording reservation operation for the contents is controlled in accordance with the content control information or the program information, or in the reception step, a reproduction for the contents is controlled according to the content control information,

the content control information relating to copy control of the content and being in the control information for obtaining the program or in the program information,

the control information including information indicating identification numbers of data packets corresponding to a broadcast program, and

the program information including information about a broadcast program and broadcast time,

a server type broadcast content control descriptor is defined as copyright information at the time of content reproduction,

the content control descriptor being inserted in a program map table, and the applicability of the content control descriptor depending on the location of the content control

descriptor within the program map table, such that in the case in which the descriptor is arranged in a first loop of the program map table the descriptor is applied to all elementary streams in a designated program, and when the descriptor is arranged in an elementary stream loop of the program map table the descriptor is applied only to a designated elementary stream.

12. (previously presented) A content recording and reproduction method according to claim 11, wherein content control information includes at least reproduction control information, and the reproduction control information includes at least one of the number of times of reproduction of contents, restriction of display resolution of reproduced broadband program, and an expiration date of content reproduction.

13. (previously presented) A content recording and reproduction method according to claim 12, wherein

in the case in which the reproduction control information concerning stored broadcast contents is included in the section of the control information for obtaining the program or the program information, in the storage step, a recording reservation operation for contents is controlled on the basis of the number of times of reproduction of contents, the restriction of display resolution at the time of reproduction of contents, and the expiration date of content reproduction described in the reproduction control information or, in the reproduction step, a reproduction operation is controlled on the basis of the number of times of reproduction of contents, the restriction of display resolution at the time of reproduction of contents, and the expiration date of content reproduction described in the reproduction control information.

14. (previously presented) A content recording and reproduction method according to claim 12, wherein in the storage step a reproduction for the received broadcast program is controlled based on record control data for managing a copy generation of contents in the control information or in the reproduction step recording reservation operation for the broadcast program is controlled based on record control data for managing a copy generation of contents in the control information, when the reproduction control information is not in the control information or the program information.

15. (currently amended) A non-transitory computer-readable medium storing a computer program that is described in a computer readable format so as to execute processing for receiving and reproducing broadcast contents in server type broadcasting on a computer system, comprising:

a reception step of receiving broadcast contents including a data stream for a broadcast program, control information for obtaining data for a broadcast program, program information, and content control information corresponding to the broadcast program or in the program information;

a storage step of storing the received broadcast contents; and

a reproduction step of reproducing the contents stored in the storage step, wherein

in the storage step, a recording reservation operation for the contents is controlled in accordance with the content control information or the program information, or in the reception step, a reproduction for the contents is controlled according to the content control information,

the content control information relating to copy control of the content and being in the control information for obtaining the program or in the program information,

the control information including information indicating identification numbers of data packets corresponding to a broadcast program, and

the program information including information about a broadcast program and broadcast time,

a server type broadcast content control descriptor is defined as copyright information at the time of content reproduction,

the content control descriptor being inserted in a program map table, and the applicability of the content control descriptor depending on the location of the content control descriptor within the program map table, such that in the case in which the descriptor is arranged in a first loop of the program map table the descriptor is applied to all elementary streams in a designated program, and when the descriptor is arranged in an elementary stream loop of the program map table the descriptor is applied only to a designated elementary stream.

16. (previously presented) A content distribution system according to claim 1, wherein the broadcast contents and the content control information are broadcasted by radio wave.